

PERENNIAL

## PROPAGATION

# *Viola Celestial™*

*Viola cornuta*



### TRAY & ROOTING

Form	<b>Unrooted Cuttings (URC)</b>
Rooting Hormone	<b>Yes</b>
Tray Size(s)	<b>72, 105</b>
Plants Per Cell	<b>1</b>
Wks. From Stick To Transplant	<b>5-6</b>
Pinch?	<b>Yes</b>
Days from stick to pinch	<b>14-21</b>

### FERTILITY

Fertilize Through Mist?	<b>No</b>
Fertilizer Rate	<b>100-150 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])</b>
EC Range	<b>Moderate: (2.0-3.5 mS via SME)</b>
pH Range	<b>5.4-5.8</b>

### TEMPERATURE

Average Soil Temperature	<b>65-72°F (18-22°C)</b>
Average Air Temperature	<b>58-65°F (14-18°C)</b>

### IRRIGATION

Irrigation Frequency	<b>Level 3: Keep media moderately moist with mild dry cycles</b>
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### LIGHT

Supplemental	<b>No</b>
Benefits From Shade?	<b>No</b>

### POTENTIAL DISEASES

Botrytis, Alternaria, Pythium

### POTENTIAL PESTS

aphids, whitefly, fungus gnats

### PGR SUGGESTIONS

- Optional 300-500 ppm Florel (3.9% Ethephon)

### CULTIVAR LIST

Blue Moon, Northern Lights, Starry Night



'Northern Lights'

### TIPS

- Plants are sensitive for high pH and high salt levels. Monitor pH and EC regularly to avoid any issues.
- Overmisting can lead to pronounced nutrient deficiencies; monitor mist carefully to avoid consistently saturated media. Tenting has proven to be an effective strategy for some growers.

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FINISHING

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## VERNALIZATION

Vernalization Required?	<b>Cooling</b>
Vernalization Duration Minimum	<b>6-8 weeks</b>
Vernalization Temperature	<b>35-40°F (1.6-4.4°C)</b>

CONTAINER SIZE	PLANTS PER POT	TRANSPLANT TO FINISH (WEEKS)
<b>4 in./qt (10-12 cm)</b>	<b>1</b>	<b>8-10</b>
<b>6 in./Gal. (15-16 cm)</b>	<b>2-3</b>	<b>9-12</b>

## FERTILITY

Fertilizer Rate	200-250 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])
EC Range	<b>Moderate: (2.0-3.5 mS via SME)</b>
pH Range	<b>5.8-6.3</b>

## TEMPERATURE

Day Temperature	<b>45-55°F (7-13°C)</b>
Night Temperature	<b>35-45°F (2-7°C)</b>

## IRRIGATION

Irrigation Frequency	<b>Level 3: Keep media moderately moist with mild dry cycles</b>
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## LIGHT

Photoperiodic requirements	<b>Daylength Neutral</b>
Supplemental?	<b>None</b>
Benefits From Shade?	<b>No</b>

## PINCHING

Finishing Pinch?	<b>No</b>
Transplant to pinch (days)	<b>N/A</b>

## POTENTIAL DISEASES

Botrytis, Alternaria, Pythium

## POTENTIAL PESTS

aphids, whitefly, fungus gnats

## PGR SUGGESTIONS

- Bonzi (0.4% Paclobutrazol) 5-40ppm spray
- 5-8 ppm Sumagic (0.055% Uniconazole)



'Blue Moon'

## TIPS

- Finish crop as cool as possible with low day and night temperatures and high light.
- Cooling for 4-5 weeks is required for superior flowering at 40°F (4.4°C)

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## FEATURES AND BENEFITS

# *Viola Celestial™*

*Viola cornuta*



### KEY INFORMATION

First Year Flowering?	<b>Yes</b>
Bloom Time	<b>Spring</b>
Exposure	<b>Full Sun to Shade</b>
Hardiness Zone	<b>4-6</b>
Height	<b>4-8 inches (10-20 cm)</b>
Width	<b>8-14 inches (20-36 cm)</b>

### DESCRIPTION

Great early perennial with semi-evergreen foliage and pansy-like flowers that offer more than an annual Viola. Will reseed regularly and establish sporadic colonies wherever growing conditions are favorable.

### CONSUMER APPEAL

- A great cool-season perennial that will bloom in the spring, stop blooming during the summer heat, and bloom again in the autumn. A delightful way to book-end the growing season.
- Violas can be good pollinator plants, they are also resistant to deer and the allelopathic biochemicals produced by black walnut trees.

### GARDEN ATTRIBUTES

- Viola cornuta features cute single flowers that can be used as solo cut flowers. The flowers are also edible.
- A nice choice for perennial borders, containers, hanging baskets, window boxes, spring centerpiece displays, or sprinkled throughout the garden to declare "spring is here!".
- Prefers consistently moist soils that are relatively well-drained and rich in organic matter. Can be grown in clay soils if in full sun and not overwatered.

### NATIVITY

Western Europe

### COMPANION PLANTS

*Alstroemeria, Monarda, Eupatorium (Ageratina), Polemonium, Phlox, Dianthus, Veronica*

### COMMON NAME(S)

violet, horned violet, horned pansy



'Starry Night'

### WE'RE HERE TO HELP YOU GROW

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